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Piero Fraternali, Paolo Paolini
 October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4
Publisher: ACM

 Full text available: [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 639, Citation Count: 21

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keywords: HTML, WWW, application, development, intranet, modeling

2 Ambient references: addressing objects in mobile networks

 Tom Van Cutsem, Jessie Dedecker, Stijn Mostinckx, Elisa Gonzalez, Theo D'Hondt, Wolfgang De Meuter

October 2006 OOPSLA '06: Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

Publisher: ACM

Full text available:  pdf(279.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 131, Citation Count: 0

A significant body of research in ubiquitous computing deals with *mobile networks*, i.e. networks of mobile devices interconnected by wireless communication links. Due to the very nature of such mobile networks, addressing and communicating with ...

Keywords: language design, mobile ad hoc networks, pervasive computing, remote object references, ubiquitous computing

3 Seconds matter: improving distributed coordination by tracking and visualizing display trajectories

 Mike Fraser, Michael R. McCarthy, Muneeb Shaukat, Phillip Smith

April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 203, Citation Count: 0

Pauses in distributed groupware activity can indicate anything from technical latency through infrastructure failure to a participant's thoughtful contemplation. Unraveling these ambiguities highlights mismatches between unseen off-screen activities ...

Keywords: display trajectory, groupware, off-screen tracking, pen-based interaction

4 Participatory user centered design techniques for a large scale ad-hoc health information system

 Tia Gao, Tamara Massey, Majid Sarrafzadeh, Leo Selavo, Matt Welsh

June 2007 HealthNet '07: Proceedings of the 1st ACM SIGMOBILE international workshop on Systems and networking support for healthcare and assisted living environments

Publisher: ACM

Full text available:  pdf(265.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 179, Citation Count: 0

During mass casualty incidents, an enormous amount of data, including the vital signs of the patients, the location of the patients, and the location of the first responders must be gathered and communicated efficiently. The Advanced Health and Disaster ...

Keywords: embedded medical systems, participatory design, triage

5 SCADA-Linux Still Hard at Work

Vance Petree

February 1995 Linux Journal, Volume 1995 Issue 10es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Citation Count: 0

Time marches on, Linux marches on, and one of the cardinal rules of the universe manifests itself.

6 System-level power optimization: techniques and tools

 Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2

Publisher: ACM

Full text available:  [pdf\(385.22 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 670, Citation Count: 63

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...

7 An open-source CVE for programming education: a case study

 Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July 2005 SI GGRAPH '05: ACM SIGGRAPH 2005 Courses

Publisher: ACM

Full text available:  [pdf\(7.92 MB\)](#)

Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 571, Citation Count: 0

8 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004

Publisher: ACM

Full text available:  pdf(17.07 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 1416, Citation Count: 4

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving ND function. The course begins with preparatory material that introduces the ...

9 The elements of nature: interactive and realistic techniques

Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw

Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  pdf(17.65 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 79, Downloads (12 Months): 1679, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

10 Exploiting perception in high-fidelity virtual environments

Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 SI GGRAPH '06: ACM SIGGRAPH 2006 Courses

2006

Publisher: ACM

Full text available:  pdf(5.07 MB)  mov(68:6 MB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 1916, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

11 [Communications of the ACM: Volume 51 Issue 1](#)

 January 2008 issue Volume 51 Issue 1
Publisher: ACM

Full text available:  pdf(5.97 MB)  digital edition(.00 bytes)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 247, Downloads (12 Months): 588, Citation Count: 0

12 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)

 Thomas Haigh
January 2006 ACM Oral History interviews
Publisher: ACM

Full text available:  pdf(974.87 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 432, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during ...

13 [Process migration](#)

 Dejan S. Milojicic, Fred Dougulis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3
Publisher: ACM

Full text available:  pdf(1.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 677, Citation Count: 22

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

14 Power reduction techniques for microprocessor systems

 Vasanth Venkatachalam, Michael Franz
September 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 3

Publisher: ACM

Full text available:  pdf(602.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 1086, Citation Count: 3

Power consumption is a major factor that limits the performance of computers. We survey the "state of the art" in techniques that reduce the total power consumed by a microprocessor system over time. These techniques are applied at various ...

Keywords: Energy dissipation, power reduction

15 Visualizing geospatial data

 Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available:  pdf(14.01 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 871, Citation Count: 0

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: ...

16 [A gentle introduction to bilateral filtering and its applications](#)

 Sylvain Paris

August 2007 SI GGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available:  [pdf\(27.35 MB\)](#)  [mov\(100:20 MIN\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 438, Citation Count: 0

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Association for Computing Machinery, Inc. Reprinted by permission. <http://doi.acm.org/10.1145/383259.383310> - Fast bilateral filtering for the display of high-dynamic-range ...

17 [Projectors: advanced graphics and vision techniques](#)

 Ramesh Raskar

August SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes 2004

Publisher: ACM

Full text available:  [pdf\(6.53 MB\)](#)

Additional Information: [full citation](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 774, Citation Count: 1

18 [Separating access control policy, enforcement, and functionality in extensible systems](#)

 Robert Grimm, Brian N. Bershad

February ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 1 2001

Publisher: ACM

Full text available:  [pdf\(164.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 292, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

19 System support for pervasive applications

 Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 4 2004

Publisher: ACM

Full text available:  pdf(1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 350, Citation Count: 5

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

20 Modern approaches to augmented reality

 **Video files associated with this course are available from the citation page**

Oliver Bimber, Ramesh Raskar
August SI GGRAPH '07: ACM SIGGRAPH 2007 courses 2007

Publisher: ACM

Full text available:  pdf(46.17 MB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 995, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

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